

OJT TRAINING · OFFSHORE STRUCTURE ENGINEER

Offshore Structure Design - Preservice Analysis (SACs)

For : **Civil Engineering, Ocean Engineering, Naval Architecture**

SACS preservice training: load-out, transportation and lifting analysis of offshore structures.

- 3 trainings
- 84 lessons
- 100% online
- Mentor: Heru Prasadja, ST – Senior Offshore Structure Engineer



ABOUT THIS OJT

Learn straight from real projects with OJT Offshore Structure Design –Preservice Analysis (SACS)

OJT-Training SACS Preservice Analysis is training in the design of offshore oil platform structures during installation/preservice conditions. In this training, you will learn three main analyses :

1. Load Out Analysis

Analysis of the platform structure when it is loaded from the yard onto the carrier vessel (barge)

2. Transportation Analysis

Analysis of the platform structure when it is transported by the carrier vessel (barge)

3. Lifting Analysis

Analysis of the platform structure when lifted by a Heavy Vessel Crane to place the lower structure (jacket)

This training not only discusses how to operate the software, but also provides practice using cases from actual oil and gas projects, applying design standards (Design Basis) similar to actual projects, and creating design reports in accordance with oil and gas company project standards.

REQUIREMENT: Proficient in operating SACS

TRAINER : Heru Prasadja,ST – Senior Offshore Structure Engineer

CURRICULUM

What you'll learn

3 trainings · 84 lessons

1

Lifting Analysis 25 lessons

Theory · Design Premises · Reference Documents · Method Of Analysis · Boundary Conditions · Allowable Stress · Contingency Factor · Dynamic Amplification Factor · Consequence Factor · Skew Effect · Rigging Arrangement · CoG Variation · Hook Point · Slings · **Loading** · Load Definition · CoG Shift Force Calculation · **Loading Combination** · Loading Combination Without Consequence Factor · Loading Combination For Member Connecting To Padeye · Loading Combination For Member Not Connecting To Padeye · **Lifting Analysis Computer Modelling** · **Analysis Result** · Weight Summary · Centre Of Gravity · Maximum Sling Load · API/AISC Member Stress Ratios · API/AISC Joint Punching Shear Stress Ratios · API/AISC Joint Minimum Required Strength Ratios · Joint Deflection · **Lifting Analysis Report Preparation**

2

Transportation Analysis 31 lessons

Introduction · Objective Of The Analysis · Design Premises · Project Specification & Design Criteria · Codes and Standards · API RP2A-WSD. 21st Edition · AISC 13th Edition/ASD · Weight Provisions · Weight Contingencies · Loading · Gravity Load · Barge Motion · Roll, Pitch & Heave Coefficient · Deck Position On the Barge · Force Inertia due to Roll & Pitch · Forces Due To Roll, Pitch and Heave Motions · Wind Load · Loading Combinations · Static Case · Dynamic Cases : · Roll + Heave · Pitch + Heave · 80% roll + 60% Pitch + 100% Heave · 60% roll + 80% Pitch + 100% Heave · Transportation Analysis computer modeling · Deck Position on the Transportation Barge Assumption · Structural Model · Boundary Conditions · Sacs Run Stream · Transportation Analysis Report Preparation · FINAL PROJECT : TRANSPORTATION ANALYSIS OF 103 TONS DECK PLATFORM

3

Load Out Analysis 28 lessons

Basic Theory · Method Of Analysis · A normal set of conditions: · All support active. · A vertical displacement of ± 30 mm is imposed on each of the 4 supports alternatively. · An extreme set of conditions: · Each support is successively released: · A maximum vertical displacement of ± 60 mm is imposed on each of support alternatively · **Structural Analysis** · Basic Load Case · Elementary Load Cases · Gravity Load · Variation Of CoG Location · Displacement Of Support · Wind Load · Friction Load · Load Combination · Full skidway support + Shifting + Wind · Loss support + Shifting · Each Support preset 30 mm upward + Shifting+Wind · Each Support preset 30 mm downward + Shifting + Wind · Each Support preset 60 mm upward + Shifting+Wind · Each Support preset 60 mm downward + Shifting + Wind · **Loadout Analysis Computer Modeling** · Model and Input Data · Create Loadout Input File · Running The Analysis · **Analysis Of Results** · Total Deck Weight, Centre Of Gravity, Support Reactions , Deflection · API/AISC Member Stress Ratios · API/AISC Joint Punching Shear Stress Ratios · API/AISC Joint Minimum Required Strength Ratios · **Report Preparation** · FINAL PROJECT : LOADOUT ANALYSIS OF 293 TONS GTS DECK PLATFORM

HOW IT WORKS

From first lesson to certificate

- 1 Download all materials from the link we sent you.
- 2 Watch the video carefully.
- 3 Practice Case Study 3 analysis as explained in the video.
- 4 Complete Final Assignment 3 analysis that we provided.
- 5 Consult your Final Assignment with your mentor via the WhatsApp Group/Email.
- 6 For Final Assignments that have been approved, a certificate will be issued.

CHOOSE A PACKAGE

SINGLE OJT

OJT Offshore Structure Design –Preservice Analysis (SACS)

Skills required for a role in Offshore Structure Design –Preservice Analysis (SACS)

84 video lessons · real-project case studies · mentor discussion · 100% online

Rp 3.500.000

COMPLETE PACKAGE **Best value**

OJT Offshore Structure Engineer Complete Package

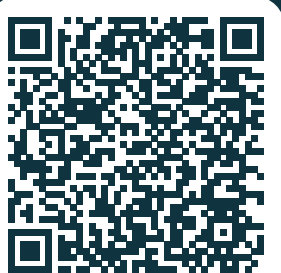
The right choice if your goal is to work as Offshore Structure Engineer: no skill left behind, one single payment.

2 OJT Trainings at once: every skill you need to work as Offshore Structure Engineer.

Offshore Structure Design–Inplace Analysis (SACS)	Rp 2.500.000
---	--------------

Offshore Structure Design –Preservice Analysis (SACS) (this OJT)	Rp 3.500.000
---	--------------

~~Rp 6.000.000~~ **Rp 5.500.000** Save Rp 500.000 (8%)



Sign up & full details at www.terapan.id

Questions? Chat on WhatsApp:

0851-3920-0080